

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES A PHASING CHANGE OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 414 AND LEISURE DRIVE IN PRINCE GEORGE'S COUNTY. MD 414 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE. THERE IS AN EXCLUSIVE LEFT TURN PHASE FOR BOTH THE EAST AND WEST APPROACHES OF MD 414. MD 414 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY AND LEISURE DRIVE THROUGH MOVEMENTS WILL RUN CONCURRENTLY. THERE IS AN ALTERNATE PEDESTRIAN PHASE FOR THE EAST LEG OF THE INTERSECTION.

EQUIPMENT LIST FOR CONTRACT NO. XY2245185

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM	QUANTITY	UNIT	DESCRIPTION
9104	1	EA	SIZE "S" CONTROLLER CABINET WITH CONTROLLER AND VIDEO INT. 1-8 CAMERAS
9570	5	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
	1	EA	R4-7 (24" x 30")
9571	72	SF	[UPDATED] SHEET ALUMINUM MAST ARM/POLE MOUNTED
	2	EA	M1-5(6) (30" x 48") POLE MOUNTED
	2	EA	M1-5(6) (48" x 72") POLE MOUNTED
	2	EA	R10-3(1) (8" x 15") POLE MOUNTED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
2001	4	CY	CLASS 2 EXCAVATION
2002	1	CY	TEST PIT EXCAVATION
5003	285	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	215	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MAKING LINES
5005	85	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MAKING LINES
6001	205	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	900	SF	5 INCH CONCRETE SIDEWALK
6003	64	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8001	32	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8002	1	EA	2-WIRE CENTRAL CONTROL UNIT
8004	9	EA	8 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8008	2	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8009	2	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8012	1	EA	EMBEDDED METERED SERVICE PEDESTAL
8016	2	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8024	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8028	4	EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8031	2265	LF	12-PAIR COMMUNICATION CABLE, SELF-SUPPORTING, JELLY-FILLED/UNDERGROUND
8036	125	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8038	80	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8039	15	LF	WOOD SIGN SUPPORT UP TO 4" x 6"
8040	77	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8042	200	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8043	1	EA	WEATHER HEAD, 3 INCH
8045	25	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
8050	1	EA	3 INCH POLYVINYL CHLORIDE CONDUIT, SCHEDULE 80, RISER
8052	375	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8055	475	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8056	1210	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8063	1	EA	INSTALL CONTROLLER AND CABINET BASE MOUNT (ANY SIZE)

CONTACTS

Ms. Felecia Murphy (PG)
Assistant District Engineer - Traffic
Phone: (301) 513-7404

Mr. Vernon Stinnett
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Victor Grafton
Utility Engineer
Phone: (301) 513-7350

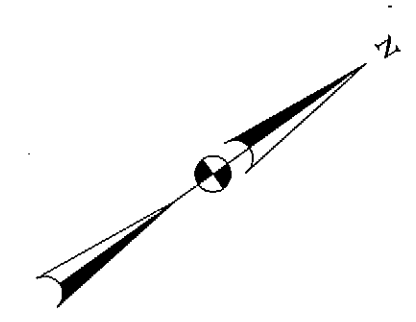
Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Supervisor, Signal Operations
Phone: (410) 787-7650

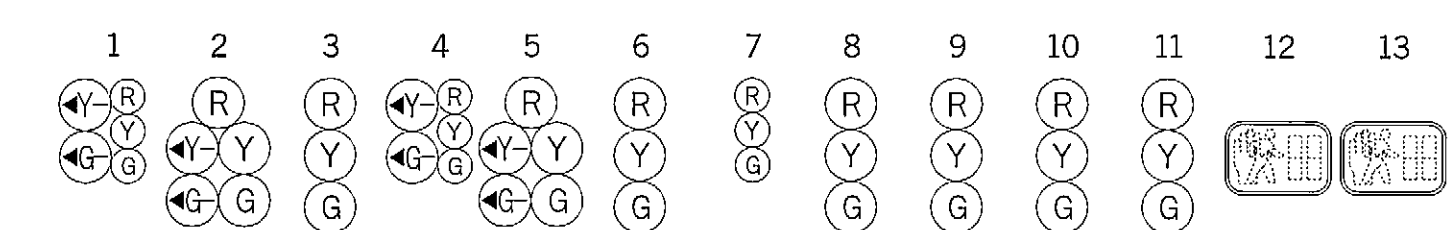
Mr. Sonny Bailey
Supervisor, Sign Shop
Phone: (410) 787-7676

Mr. Mike Stocker
Supervisor, Signal Warehouse
Phone: (410) 787-7668

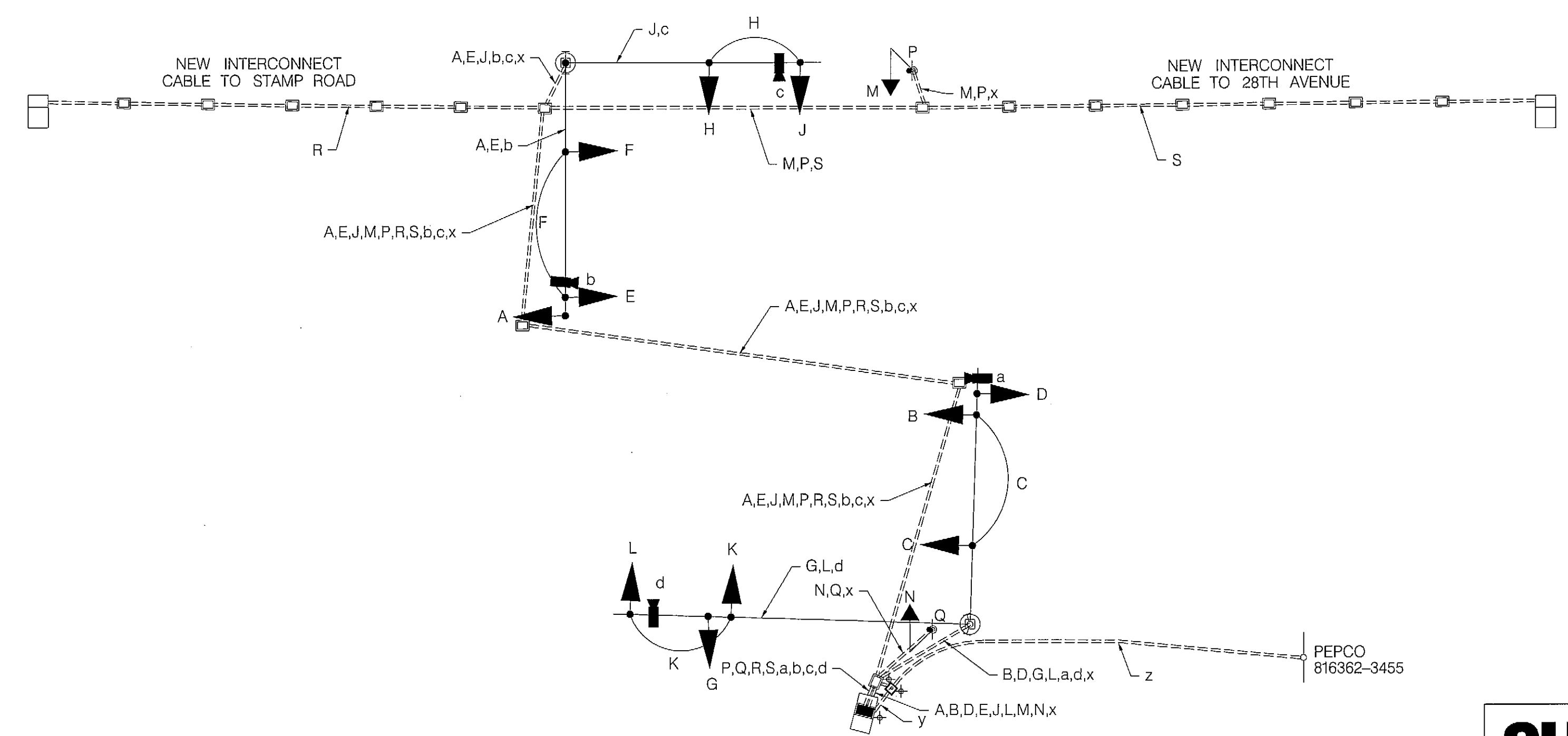
Power Company Representative - PEPCO (PG)
Mr. Richard Chilcoat, Service Associate
PEPCO Engineering
8300 Old Marlboro Pike
Upper Marlboro, MD 20772
Phone: (301) 967-5805, Fax: (301) 967-5820
email: rachilcoat@pepco.com



PHASE CHART



PHASE 1 AND 5	←G/R	←G/R	R	←G/R	←G/R	R	R	R	R	R	R	R	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6														
PHASE 1 AND 6	←G/G	←G/G	G	R	R	R	R	R	R	R	R	R	DW	DW
1 AND 6 CHANGE	←Y/G	←Y/G	G	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 AND 5	R	R	R	←G/G	←G/G	G	R	R	R	R	R	R	DW	DW
2 AND 5 CHANGE	R	R	R	←Y/G	←Y/G	G	R	R	R	R	R	R	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	DW	WK
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
PHASE 4 AND 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	FL/DW	FL/DW
4 AND 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK



- WIRING KEY**
- A,B,D } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - E,J,L }
 - C,F,H } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - K,M,N }
 - P,Q } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - R,S } NEW INTERCONNECT 12 PAIR CABLE
 - a,b,c,d } VIDEO CAMERA CABLE
 - x } STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
 - y } 3 WIRE, 1-CONDUCTOR ELECTRICAL CABLE (NO. 8 AWG-THHN/THWN)
 - z } 3 WIRE, 1-CONDUCTOR ELECTRICAL CABLE (NO. 2 AWG-THHN/THWN)
 - + } GROUND ROD

TOD NO: XY224-10
SHA NO: PG821A54/B54
MD 414 @ Leisure Drive

SHASTATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 414 (ST BARNABAS ROAD) AT LEISURE DRIVE
MARLOW HEIGHTS, MD

GENERAL INFORMATION PLAN SHEET

SCALE NONE ADVERTISED DATE 02/2012 CONTRACT NO. XY2245185

DESIGNED BY CW COUNTY PRINCE GEORGE'S
DRAWN BY CW LOGMILE 16041403.74
CHECKED BY RM TMS NO. L267
F.A.P. NO. TOD NO.

TS NO. 375-B DRAWING **GG-1** OF 1 SHEET NO. 3 OF 3

BAI BRUDIS & ASSOCIATES, INC.
Consulting Engineers
9240 Runney Road, Suite C
Columbia, Maryland 21045
Phone: 410-684-3907
www.brudis.com

PLOTTED: Wednesday, May 02, 2012 AT 02:31 PM
FILE: P:\06-002 TEDD\Task 78 MD 414 @ Leisure Drive\Drawings\CADD\Working\PGG-P003_MD414@LEISURE.dgn

BY: chuck